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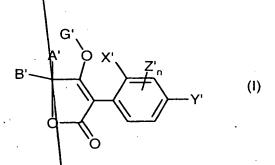
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## Patent claims

1. Composition, comprising a synergistically effective mixture of compounds of the formula (I)



in which

X' represents  $C_1$   $C_6$ -alkyl, halogen,  $C_1$ - $C_6$ -alkoxy or  $C_1$ - $C_3$ -halogenoalkyl,

Y' represents hydrogen,  $C_1$ - $C_6$ -alkyl, halogen,  $C_1$ - $C_6$ -alkoxy,  $C_1$ - $C_3$ -halogenoalkyl,

Z' represents  $C_1$ - $C_6$ -alkyl, halogen,  $C_1$ - $C_6$ -alkoxy,

n represents a number from 0 to 3,

A' and B' are identical or different and each represents hydrogen or in each case optionally halogen-substituted straight-chain or branched  $C_1$ - $C_{12}$ -alkyl,  $C_3$ - $C_8$ -alkenyl,  $C_3$ - $C_8$ -alkinyl,  $C_1$ - $C_{10}$ -alkoxy- $C_2$ - $C_8$ -alkyl,  $C_1$ - $C_8$ -polyalkoxy- $C_2$ - $C_8$ -alkyl,  $C_1$ - $C_{10}$ -alkylthio- $C_2$ - $C_8$ -alkyl, cycloalkyl having 3-8 ring atoms which may be interrupted by oxygen and/or sulphur and in each case optionally halogen-,  $C_1$ - $C_6$ -alkyl-,  $C_1$ - $C_6$ -halogenoalkyl-,  $C_1$ - $C_6$ -alkoxy-,  $C_1$ - $C_6$ -halogenoalkoxy- and/or nitro-substituted phenyl or phenyl- $C_1$ - $C_6$ -alkyl,

or in which

A' and B' together with the carbon atom to which they are attached form a saturated or unsaturated 3- to 8-membered ring which is optionally interrupted by oxygen and/or sulphur and is optionally substituted by halogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>-halogenoalkyl, C<sub>1</sub>-C<sub>4</sub>-halogenoalkoxy, C<sub>1</sub>-C<sub>4</sub>-alkylthio or optionally substituted phenyl or is optionally berzo-fused,

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G' represents hydrogen (a) or represents the groups

$$-CO-R^{1}$$
 (b),  $O-R^{2}$  (c),  $-SO_{2}-R^{3}$  (d),  $-P = R^{4}$  (e) or  $N = R^{7}$  (f)

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in which

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represents in each case optionally halogen-substituted C<sub>1</sub>-C<sub>20</sub>-alkyl, C<sub>2</sub>-C<sub>20</sub>-alkenyl, C<sub>1</sub>-C<sub>8</sub>-alkoxy-C<sub>2</sub>-C<sub>8</sub>-alkyl, C<sub>1</sub>-C<sub>8</sub>-alkylthio-C<sub>2</sub>-C<sub>8</sub>-alkyl, C<sub>1</sub>-C<sub>8</sub>-polyalkoxy-C<sub>2</sub>-C<sub>8</sub>-alkyl or cycloalkyl having 3-8 ring members which may be interrupted by oxygen and/or sulphur atoms,

represents optionally halogen-, nitro-,  $C_1$ - $C_6$ -alkyl-,  $C_1$ - $C_6$ -alkoxy-,  $C_1$ - $C_6$ -halogenoalkyl- and/or  $C_1$ - $C_6$ -halogenoalkoxy-substituted phenyl;

represents optionally halogen-,  $C_1$ - $C_6$ -alkyl-,  $C_1$ - $C_6$ -alkoxy-,  $C_1$ - $C_6$ -halogenoalkyl- and/or  $C_1$ - $C_6$ -halogenoalkoxy-substituted phenyl-  $C_1$ - $C_6$ -alkyl,

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represents in each case optionally halogen- and/or C<sub>1</sub>-C<sub>6</sub>-alkyl-substituted pyridyl, pyrimidyl, thiazolyl and pyrazolyl,

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or represents optionally halogen- and/or  $C_1$ - $C_6$ -alkyl-substituted phenoxy- $C_1$ - $C_6$ -alkyl,

 $\mathbb{R}^2$  .

represents in each case optionally halogen-substituted  $C_1$ - $C_{20}$ -alkyl,  $C_2$ - $C_{20}$ -alkenyl,  $C_1$ - $C_8$ -alkoxy- $C_2$ - $C_8$ -alkyl,  $C_1$ - $C_8$ -polyalkoxy- $C_2$ - $C_8$ -alkyl,

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represents in each case optionally halogen, nitro-,  $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkoxy- and/or  $C_1$ - $C_6$ -halogenoalkyl-substituted phenyl or benzyl,

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R<sup>3</sup>, R<sup>4</sup> and R<sup>5</sup> independently of one another each represent in each case optionally halogen-substituted C<sub>1</sub>-C<sub>8</sub>-alkyl, C<sub>1</sub>-C<sub>8</sub>-alkoxy, C<sub>1</sub>-C<sub>8</sub>-alkylamino, di-C<sub>1</sub>-C<sub>8</sub>)-alkylamino, C<sub>1</sub>-C<sub>8</sub>-alkylthio, C<sub>2</sub>-C<sub>5</sub>-alkinylthio, C<sub>3</sub>-C<sub>7</sub>-cycloalkylthio, represent in each case optionally halogen-, nitro-, cyano-, C<sub>1</sub>-C<sub>4</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-halogenoalkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkylthio-, C<sub>1</sub>-C<sub>4</sub>-halogenoalkylthio-, C<sub>1</sub>-C<sub>4</sub>-halogenoalkyl-substituted phenyl, phenoxy or phenylthio,

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 $R^6$  and  $R^7$  independently of one another each represent in each case optionally halogen-substituted  $C_1$ - $C_{20}$ -alkyl,  $C_1$ - $C_{20}$ -alkoxy,  $C_2$ - $C_8$ -alkenyl,  $C_1$ - $C_{20}$ -alkoxy- $C_1$ - $C_{20}$ -alkyl, represent optionally halogen-,  $C_1$ - $C_{20}$ -halogenoalkyl,  $C_1$ - $C_{20}$ -alkyl- or  $C_1$ - $C_{20}$ -alkoxy-substituted

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phenyl, represent optionally halogen-,  $C_1$ - $C_{20}$ -alkyl-,  $C_1$ - $C_{20}$ -halogenoalkyl- or  $C_1$ - $C_{20}$ -alkoxy-substituted benzyl or together represent a  $C_2$ - $C_6$ -alkylene ring which is optionally interrupted by oxygen,

 $\int_{1}^{5} 2^{2} dx$ 

and at least one agonist of antagonist of nicotinic acetylcholine receptors.

Composition, comprising a synergistically effective mixture of compounds of the formula (I) according to Claim 1,

in which

- X' represents  $C_1$ - $C_4$ -alkyl, halogen,  $C_1$ - $C_4$ -alkoxy or  $C_1$ - $C_2$ -halogenoalkyl,
- Y' represents hydrogen, C<sub>1</sub>-C<sub>4</sub>-alkyl, halogen, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>2</sub>-halogenoalkyl,
- Z' represents  $C_1$ - $C_4$  alkyl, halogen,  $C_1$ - $C_4$ -alkoxy,
- n represents 0 or 1,
  - A' and B' together with the carbon atom to which they are attached form a saturated 5- to 6-membered ring which is optionally substituted by  $C_1$ - $C_4$ -alkyl and/or  $C_1$ - $C_4$ -alkoxy,
  - G' represents hydrogen (a) or represents the groups

 $-CO-R^{1}$  (b)  $O-R^{2}$  (c)

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in which

represents in each case optionally halogen-substituted  $C_1$ - $C_{16}$ -alkyl,  $C_2$ - $C_{16}$ -alkenyl,  $C_1$ - $C_6$ -alkoxy- $C_2$ - $C_6$ -alkyl or cycloalkyl having 3-7 ring atoms which may be interrupted by 1 to 2 oxygen and/or sulphur atoms,

represents optionally halogen-, nitro-,  $C_1$ - $C_4$ -alkyl-,  $C_1$ - $C_4$ -alkoxy-,  $C_1$ - $C_3$ -halogenoalkyl- and/or  $C_1$ - $C_3$ -halogenoalkoxy-substituted phenyl;

R<sup>2</sup> represents in each case optionally halogen-substituted  $C_1$ - $C_{16}$ -alkyl,  $C_2$ - $C_{16}$ -alkenyl or  $C_1$ - $C_6$ -alkoxy- $C_2$ - $C_6$ -alkyl,

represents in each optionally halogen-, nitro-, C<sub>1</sub>-C<sub>4</sub>-alkyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy- and/or C<sub>1</sub>-C<sub>4</sub>-halogenoalkyl-substituted phenyl or benzyl,

and at least one agonist of antagonist of nicotinic acetylcholine receptors.

3. Composition, comprising a synergistically effective mixture of the compound of the formula (Ia)

and at least one agonist or antagonist of nicotinic acetylcholine receptors.

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Composition according to any of Claims 1, 2 and 3, comprising compounds of the formula (I) and the agonist or antagonist of nicotinic acetylcholine receptors in a ratio of from 1:100 to 100:1.

5. Use of a synergistically effective mixture, comprising compounds of the formula (I) according to any of Claims 1, 2 and 3, and at least one agonist or antagonist of nicotinic acetylcholine receptors, for controlling animal pests.

6.

Method for controlling animal pests, characterized in that mixtures as defined in any of Claims 1, 2 and 3 are allowed to act on animal pests and/or their habitat.

7. Process for preparing pesticides, characterized in that a synergistially effective amount comprising compounds of the formula (I) according to any of Claims 1, 2 and 3 and at least one agonist or antagonist of nicotinic acetylcholine receptors is mixed with extenders and/or surfactants.

8. Mixtures according to any of Claims 1, 2, 3 and 4, comprising at least one of the following compounds

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or

$$CI \longrightarrow S$$
 $CH_2$ 
 $N$ 
 $N$ 
 $N$ 
 $N$ 
 $NO_2$